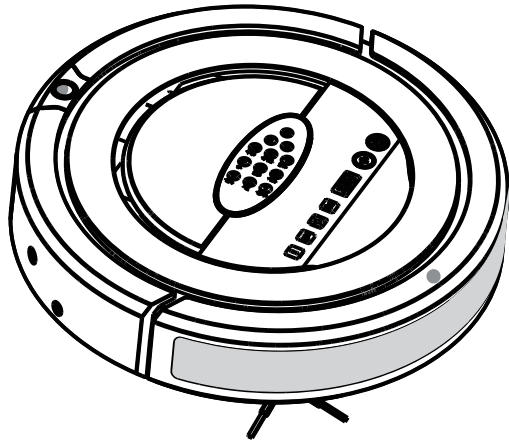


INFINUVO

CleanMate



QQ5 Plus

Robotic Vacuum Cleaner

REV 03222013

INFINUVO

CleanMate

QQ5 Plus

Robotic Vacuum Cleaner
USER MANUAL

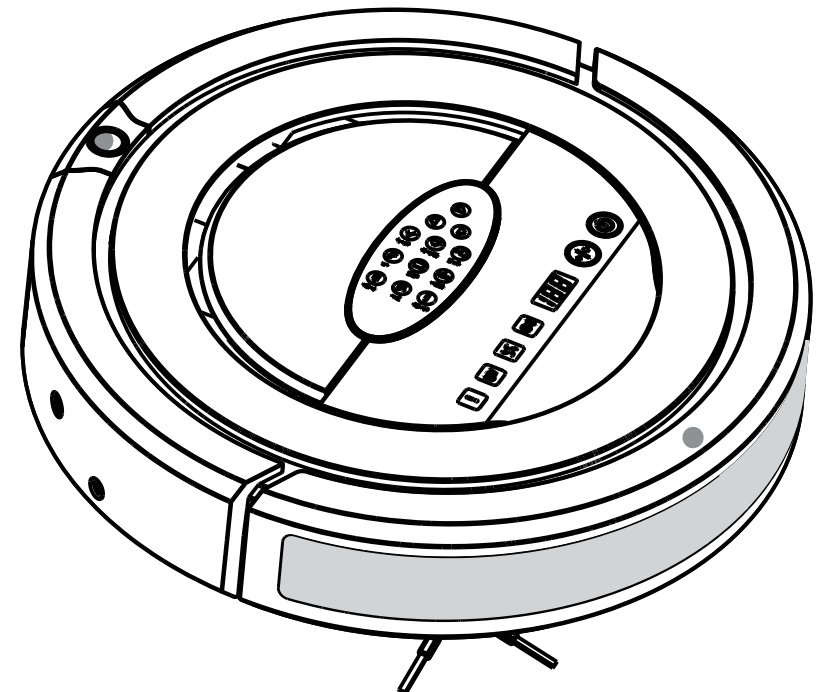


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QQ5 Plus

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Introduction

QQ5 Plus

Thank you for purchasing your new CleanMate robot vacuum cleaner. Please read all instructions in this manual before using it. Follow the safety instructions below.

If you have any questions, please do not return the product to store. Feel free to contact our Customer Service team via online chat, web support form, or email, and we are always here to help.
Web Support: <http://cleanmate.metapo.com>
Email Support: support@metapo.com

Safety Instructions

QQ5 Plus

Please read all instructions and **remove 2 white protection pads from front bumper** before using your CleanMate QQ5 Series robot cleaner. Save this manual for future references.

- This product is for indoor use only.
- Only use included battery charger, charging base and genuine battery when you operate the CleanMate.
- It is a electrical device. Do not use it on wet floor or spill water on your CleanMate.
- Do not handle battery charger, battery and charging base with wet hand.
- **Do not look at the UV light directly or expose to it when the UV lamp is on.**
- Do not touch the UV lamp with bare hand or sharp object.
- Do not sit or stand on your CleanMate. Pay attention to toddlers & pets when you use the CleanMate in your house.
- Do not use it to clean burning cigarette, or lit match, etc.
- Do not use it to clean a floor with water or any other liquid.
- Do not use it to clean a floor with bleach or any other chemicals.
- Do not block the air vent of the CleanMate unit.
- To achieve best cleaning result, remove large loose & fragile objects from the floor (power cord, cable wire, phone cord, clothing, long blind & curtain drapes, loose rug fringes, etc).
- Clean the debris tangled around brushes and wheels to avoid overloading it.
- After each use, empty dust bin, clean filter and brushes to keep it at top performance.
- If you do not plan to use it for a long period of time, fully charge first and then remove it from CleanMate unit and store the battery in a dry, cool environment.

Product Features

QQ5 Plus

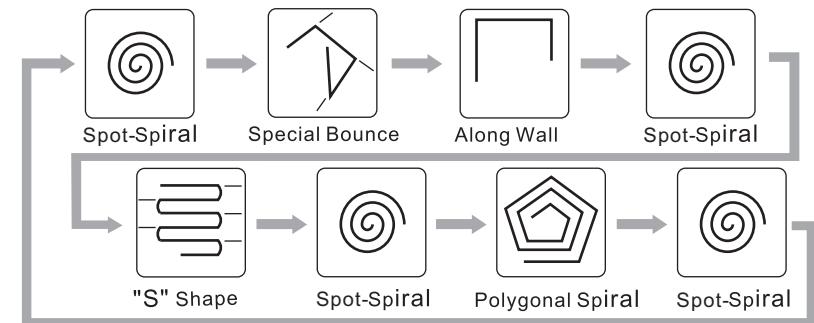
- Automatically returning to charging base when battery runs low.
- Locate and return to charging base faster than older series thanks to its new intelligence.
- Scheduling cleaning time 7 days a week with scheduler.
- 2 Sonic Wall devices to easily set the boundaries of cleaning area
- High performance & low noise vacuuming for best cleaning result
- Unique UV light on the bottom helps to kill germs, dust mites on the floor.
- 2 obstacle detection methods : Non-collision (Non-Impact) and Soft-impact. QQ5 will automatically slow down when it moves near an obstacle. It can also operate in either Non-collision mode (both non-collision for large obstacles and soft-impact for small objects) or Soft-impact mode. User can use the remote control to change between the two modes. The Soft-impact mode will allow the QQ5 to clean better because it will be able to move closer to wall edges, furniture legs and corners.
- 2 Side brushes for better cleaning along wall / furniture edges.
- 2 Roller brushes for better handling of larger debris.
- Unique 2-chamber dust bin design.
- 6 drop sensors to keep it from falling off stairs .
- Spot cleaning with spiral movement pattern (select mode 1 with remote control).
- Cleaning a wide variety of floor types .
- Low profile design enable it to clean under beds and other furniture.
- Product dimensions: 13” in diameter (33 cm) and 3.1” in height (8 cm).

Product Features

QQ5 Plus

AUTO Cleaning Mode:

When your CleanMate is turned on, it will enter a default AUTO cleaning mode that automatically goes through all of the following 5 moving patterns to achieve optimised cleaning result.



Cautions

QQ5 Plus



Do not look at the UV light directly or expose yourself to it when UV lamp is on.



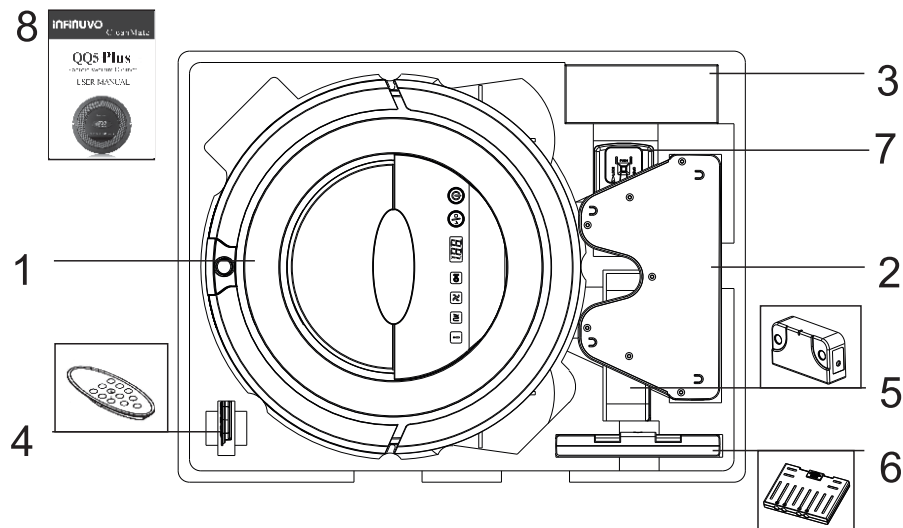
Do not touch the UV lamp with bare hand or sharp object. Finger oil may cause damage or premature failure of the UV lamp.



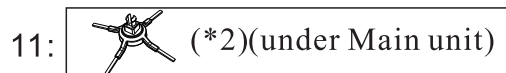
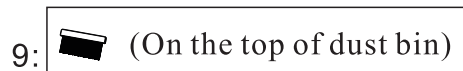
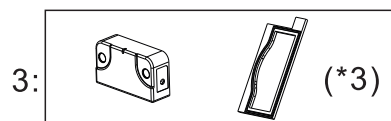
Do not try to remove UV lamp by yourself. It can only be serviced & replaced by qualified personnel.

Main Unit and Accessories

QQ5 Plus

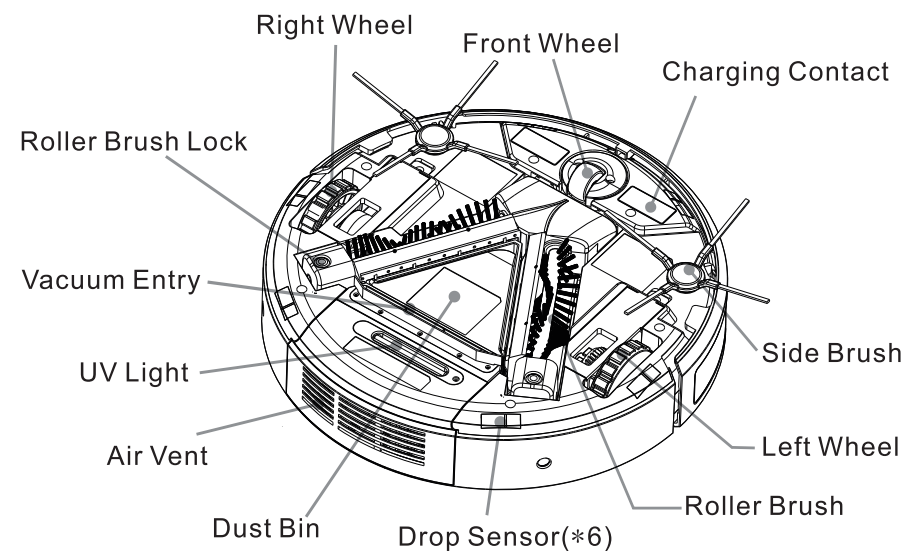
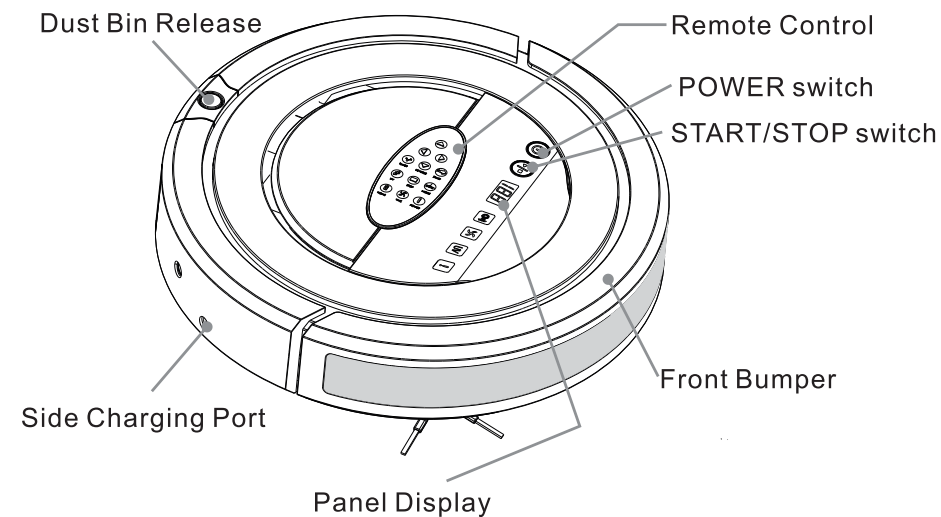


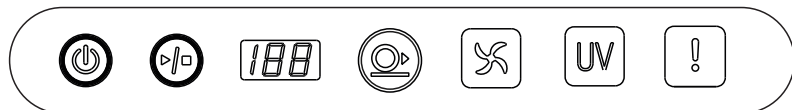
1. Main Unit
2. Charging Base
3. Sonic Wall # 1 and 3 Extra Filters
4. Remote Control
5. Sonic Wall # 2
6. Battery
7. AC Battery Charger
8. Manual
9. Small Cleaning Brush (at Top of Dust Bin)
10. Roller Brush Cleaning Tool
11. Two (2) Extra Side Brushes



Main Unit Features

QQ5 Plus





 : **Main Power Switch:** Press this power switch button once to turn on the QQ5, and press it again will turn it off.

Note: It is also a battery charging indicator (see status below).

Status Lights on Main Power Switch:

- Blinking in Blue – Battery charging is in process
- Solid Blue – (1) QQ5 is powered on, or (2) Charging has completed & battery is fully charged.
- Blinking in Red – Battery power is low (also shows “Lo” on status display). Users need to charge the battery now before using it again.

 : **Start / Stop Button:** Press Start/Stop button once and the QQ5 will start running (with blue light on) in automatic cleaning mode; Press this button again the QQ5 will stop its operation (blue light off).

After turning on the QQ5 with Main Power Switch, users can press the Power and Start/Stop (and other buttons) on the remote control to operate the QQ5 within for 24 hours.

NOTE: To conserve battery power, CleanMate QQ5 will automatically enter a power-saving standby mode if it is not in operation for over 2 minutes. Users need to press the Power button on remote control to wake it up from standby mode and continue to use it.

If the QQ5 is not used for over 24 hours, it will automatically shut down. In this case, you will have to press the Main Power Switch on QQ5 unit to turn it on again.

 : **Timer / Moving Mode / Error Code display:**

This is a special multi-function 2-digit LED display that can show timer information, cleaner moving mode, as well as Error Code on it.

1. **Timer:** User can use timer to set up the maximum running time of CleanMate unit. When you turn on the QQ5, default timer setting is 80 minutes. The actual running time may vary depending on battery power left and floor types, etc. It normally runs longer on hard floors than on carpets. User can change the timer setting in 10 minutes intervals with remote control (80-->70-->60-->50-->40-->30-->20-->10-->80). QQ5 can remember the latest timer setting when user power it on again. The value shown on timer will automatically count down (by minute) when the QQ5 starts running.
2. **Moving Mode:** When you turn the QQ5 on, the default moving pattern is set to Automatic mode. Users have the option to select any of the following 6 moving patterns with the remote control: “1” Spiral; “2” Special Bounce; “3” Along Wall; “4” S Shape; “5” Polygonal Spiral; and “A” Automatic (automatically going through all patterns).
3. **Error Code:** When the CleanMate QQ5 encountered an abnormal problem, it shows one of the following error codes (E1 ~ E11) on the multi-function LED display. The red Error light will also be on.
 - E1: Front drop sensor not working**
 - E2: QQ5 is lifted off ground**
 - E3: Front bumper touch not working**
 - E4: Dust bin not installed properly**
 - E5: Left wheel problem**
 - E6: Right wheel problem**
 - E7: Side brush problem**
 - E8: Roller brush problem**
 - E9: Vacuum motor problem**
 - E10: Battery charging error**
 - E11: Battery over heated**



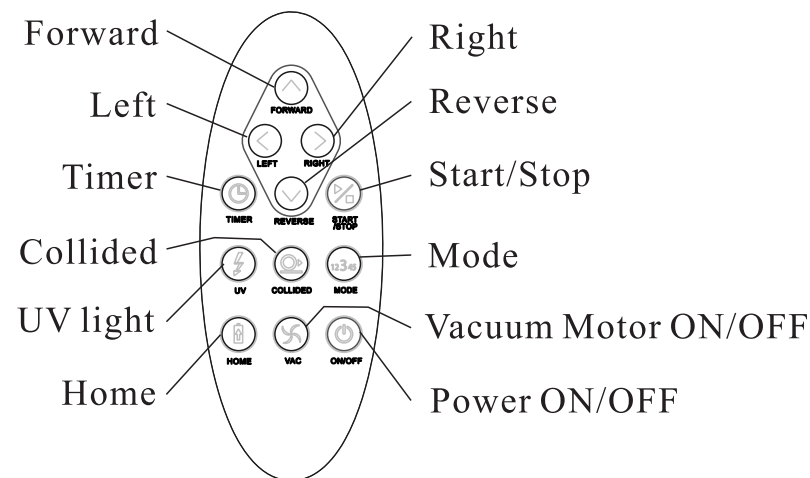
: **Non-Collision indicator:** CleanMate QQ5 will automatically slow down when it moves near an obstacle. It can also operate in either **Non-collision** mode(both non-collision for large obstacles and soft-impact for small objects) or **Soft-impact** mode.

By default, QQ5 works in Non-collision mode which means that the Non-Collision Indicator should be on. When QQ5 is on Soft-impact mode the Non-Collision Indicator icon should be off.

: **Vacuum Fan indicator:** When the QQ5 is powered on, vacuum fan is on and the corresponding blue indicator light is on. User can use remote control to turn off the vacuum fan, and this blue indicator will be off.

: **UV Light indicator:** When the QQ5 is powered on for the first time, UV light is also turned on and the corresponding blue indicator light is on. User can use remote control to turn off the UV light, and this blue UV Light indicator will be off. QQ5 can remember the latest UV Light setting when you turn it on next time.

: **Error indicator:** When the CleanMate has an error this indicator LED light will turn on in red. Please refer to the error code, displayed in the timer, for details.



Function of each Button:

-  **ON/OFF:** After turning on the QQ5 by pressing POWER switch on main unit, you can use ON/OFF button on remote control to turn it on or off. **Standby mode:** When QQ5 is turned off, it will enter a power-saving standby mode for 24 hours. The vacuum will completely shut down after 24 hours. In this case, user needs to press the Power switch button on vacuum to turn it on first and to use remote control again.
-  **START/STOP:** Press it once to start cleaning in auto mode; press it again to stop it.
-  **LEFT/RIGHT/FORWARD/REVERSE:** Direction keys. If any direction key is pressed and hold down, QQ5 will keep moving toward that direction. **FORWARD:** if pressed and hold down, QQ5 will keep moving forward with vacuuming motor on until it hits an object or the FORWARD key is released.
-  **TIMER:** Set cleaning time from 10 min to 80 min (in 10 min increment). Actual QQ5 running time varies depending on battery power left.

Remote Control Function

QQ5 Plus

- ③ **MODE:** Select one of the 6 cleaning patterns: "1", "2", "3", "4", "5" and "A" (Auto mode). Auto mode is the default cleaning mode when CleanMate is powered on. QQ5 will automatically go through all the moving patterns in Auto mode.

"1": Spot Spiral (repeating between smaller spiral to bigger spiral)
"2": Special Bounce; "3": Along the wall; "4": S shape; "5": Polygonal Spiral; "A": Auto mode.
- ④ **UV:** Turn UV light on or off.
- ⑤ **VAC:** Turn the vacuum motor on or off.
- ⑥ **COLLIDED:** There are two modes, *Non-collision mode* (both non-collision for large obstacles and soft-impact for small objects) and *Soft-impact mode*. By default, QQ5 works in Non-Collision mode with blue indicator Icon light on in the QQ5 panel display. To change to Soft-impact mode (blue light off) press the collided button on the remote control. To switch between modes simply press the collided button on the remote.
- ⑦ **HOME:** Let QQ5 return to charging base to recharge its battery

Safe Usage Guidelines on Remote Control

QQ5 Plus

The 2.4 GHz wave length used by the QQ5 is also used for devices such as microwave ovens, industrial/scientific/medical devices etc. In order to prevent interference with other machines, please pay attention to the below warnings:

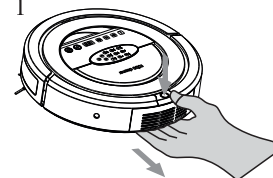
1. Before using the QQ5, please make sure that there are no wireless devices in operation.
2. In case QQ5 is affected by wireless signals nearby, please stop the signal transmission to avoid signal interference.

Battery Installation and Removal

QQ5 Plus

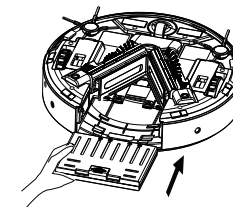
1. Please follow below drawing, step by step to install battery.
Step 1. Press Dust Bin Release button, and pull out the Dust Bin.
Step 2. Turn the CleanMate upside down, and slide the battery into slot along the arrow direction on battery (battery arrow sign should face up).
Step 3. Push the battery all the way in until it locks into place by the 2 plastic locking tabs.
Step 4. Reinstall the Dust Bin.

Step 1

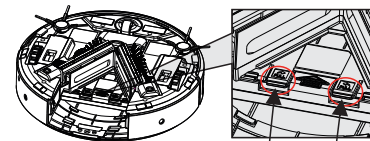


Push Release button to remove Dust Bin.

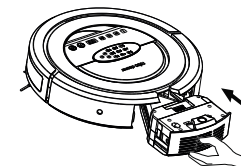
Step 2



Step 3



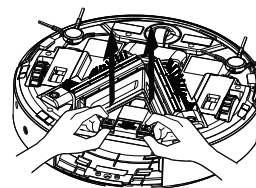
Step 4



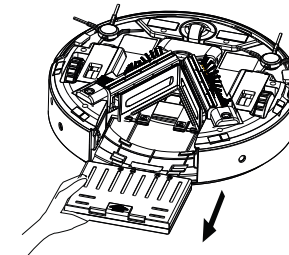
2. Please follow below drawing, step by step to remove battery.
Make sure to shut down the CleanMate using POWER switch on the main unit.
Press Dust Bin Release button to take out Dust Bin, then turn the unit upside down.

- Step 1: Pull up 2 hooks in the same time, battery will be popup itself.
- Step 2: Take out battery.

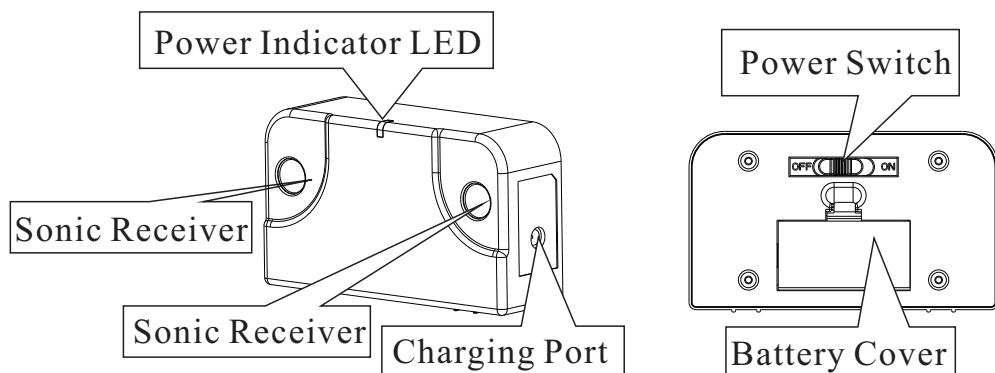
Step 1



Step 2



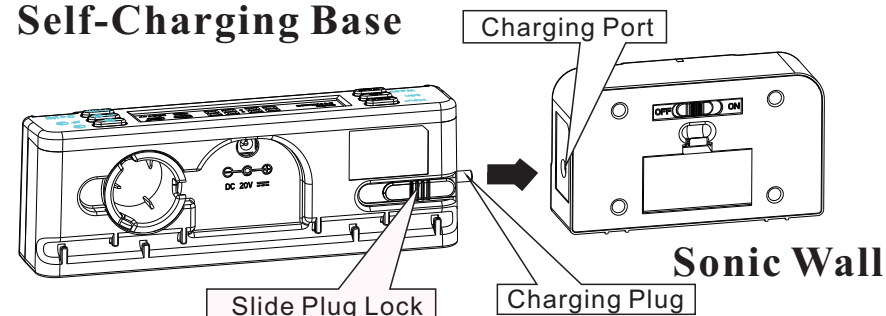
The Sonic Wall device creates an invisible barrier that QQ5 will not cross, so you can confine the QQ5 to perform cleaning job in certain area.



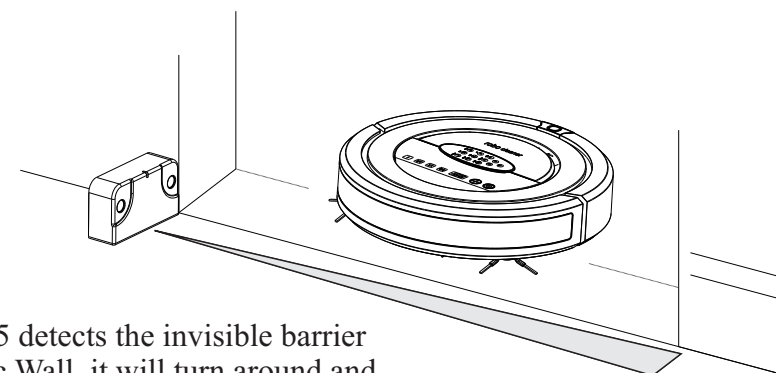
Instructions:

1. This CleanMate Sonic Wall is powered by 2 AA rechargeable batteries (included). Make sure to install the batteries in correct polarity.
2. To turn on the Sonic Wall, slide its Power switch to ON position.
3. After the Sonic Wall is turned on, the blue LED light will lit up in solid for 70 sec., then the LED light will be off and the Sonic Wall will enter a power saving standby mode.
4. After QQ5 starts working for 6 seconds, it will wake up Sonic Wall and blue LED light will be on.
The effective distance of Sonic Wall barrier is about 10 ft (3 meters).
5. When the LED indicator on Sonic Wall is blinking, it indicates that battery power is low and it is time to re-charge its batteries.

Self-Charging Base



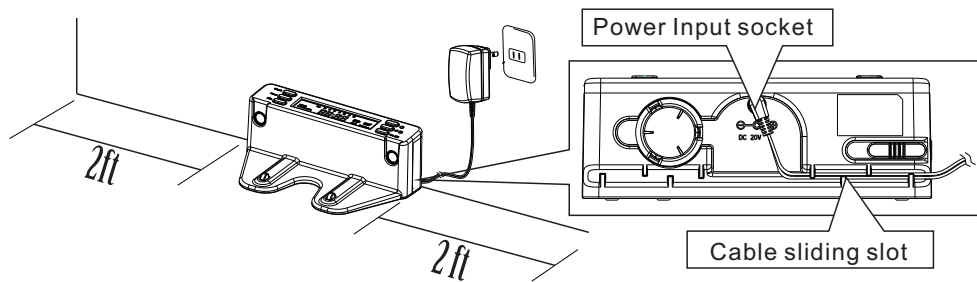
6. You can charge Sonic Wall batteries using CleanMate charging base (see steps below).
 Step 1: The power switch of Sonic Wall, must set "ON" position.
 Step 2: Press and Slide out the "Slide switch" from charging base.
 Step 3: Plug the charging plug into charging port on Sonic Wall.
 Step 4: Blue LED is blinking. When charging is complete, LED will light steady.
7. When QQ5 is cleaning, the Sonic Wall position should be at least 3 ft (1m) away from charging base, and avoid facing the Sonic Wall towards charging base.
 When cleaning is done, power Sonic Wall down by sliding its Power switch to "OFF" position.



When QQ5 detects the invisible barrier from Sonic Wall, it will turn around and move to another direction.

Preparations

- ① It is recommend to put the Self-Charging Station(home charging base) on hard floor in the room. Leave at least 2ft clearance around the charging base.
- ② First, plug the battery charger to Power Input socket on the back of charging base. Then, place the charging base securely against the wall. Don't leave loose wire around the base. Finally, plug battery charger to power outlet on the wall.
- ③ LCD display on the charging be will be turned on, and it is ready to charge the CleanMate unit.



Please settle down the wire of charger into the back side slot of base.

Testing the Self-Charging Station

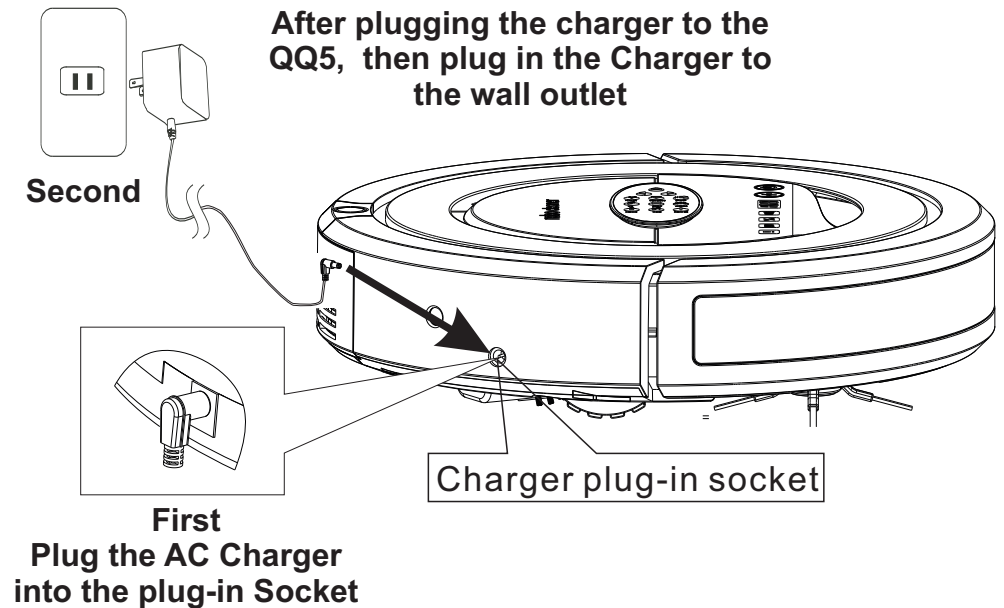
1. Put the QQ5 on the floor in front of Self-Charging Station (a few feet away) and turn it on, then press "Home" on remote control. The QQ5 should return to the Self-Charging Station automatically for self-charging.
2. Make adjustments to the base if QQ5 does not dock properly.

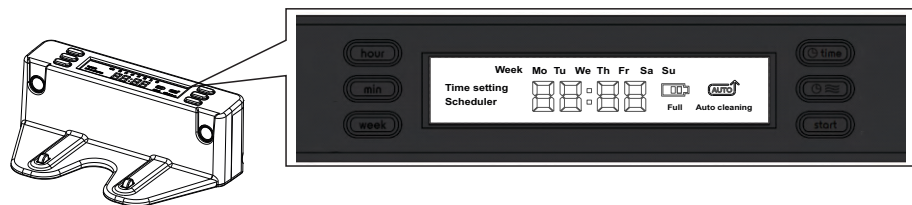
Battery Charging Methods

Auto Charging: CleanMate QQ5 can automatically return to the charging base to charge itself when battery runs low. User can also press "HOME" on remote control to let it return to the base at any time.

Manual Charging: Users can always plug the battery charger to side charging socket on CleanMate QQ5 to charge it manually.

Note: Before manual charging, please refer to the diagram below and follow the correct sequence to avoid sparks.





The scheduling function of CleanMate QQ5 is integrated to the charging base. The scheduler LCD display window is on the top of charging-base.

Before setting up the clock and cleaning schedule, user needs to plug CleanMate battery charger (AC adapter) to the home charging base to power it up.

Users can set up the scheduler to let CleanMate start doing the cleaning job at a specific time every day, or on any given day(s) of week that user selects. Upon the pre-set time, CleanMate QQ5 will automatically leave the charging base and start cleaning by itself.

Setting Up Clock:

Before using the schedule functions, users need to set up the clock first.

Press “Clock setting” button to enter clock mode, and LCD display will show Time Setting on it. Then, enter the Hour, Min. and Day of week values by pressing corresponding buttons on the left of LCD display. Finally, to confirm your clock settings, press “Clock setting” button again to save it to memory and clock will start running.

Press "Hour" to set hour in 24-hour format (00, 01, 02, ..., 23)

Press "Min." to set minute (00, 01, 02, ..., 59)

Press "Week" to select a day of week (Monday, Tuesday, ..., Sunday);

Note:

Press and hold above buttons will have their values changed rapidly. Clock setting can be recovered even when the charging base temporarily loses its power.

Normally, the LCD window will only display Hour and Min values. Press “Clock” again at a later time will show current Weekday, Hour, and Min. values.

Setting Up Scheduler:

Step 1. Press “Scheduler” button to enter scheduler mode, and LCD display will show “Scheduler”. After setting up your cleaning schedule, press this button again to confirm and save it to memory.

Step 2. Press "Week" button, LCD window will show a blinking "Mo" (Monday) and waits for user confirmation.

If "Week" button is pressed within 8 sec., Monday will be selected and saved.

If "Week" button is NOT pressed within 8 sec., then it will be skipped to the next and show a blinking "Tu" (Tuesday).

Press “Week” within 8 sec. to select Tuesday (or any day of week). Otherwise, it will jump to the next day of week option. .

You can select any combination of day of week (up to 7 days a week) and save your cleaning schedule to memory.

Step 3. Use "Hour" and “Min” to select and save hour and min. values to scheduler in similar ways. Press “Scheduler” to confirm & save the settings after you are done.

How do I disable scheduler function?

If you want to disable scheduler settings, press “Scheduler” to enter scheduler mode, then press “Hour” to select the 4 disable bars “--:--” display (Hour value will show ..., 22, 23, --:--, 00, 01, etc in this mode). Finally, press “Scheduler” again to confirm.

NOTE: User needs to correctly set up all the Hour, Min and Day of week values on the scheduler for it to work. CleanMate will not start the cleaning by itself in case scheduler setting is not complete.

Step 4. After you properly set up the clock and scheduler, the LCD display will return to normal display mode that shows both clock and scheduled day of week value(s).

Auto Cleaning Function:

Press “Start” button on charging base once, and the CleanMate QQ5 unit will automatically start cleaning once its battery is fully charged on the charging base.

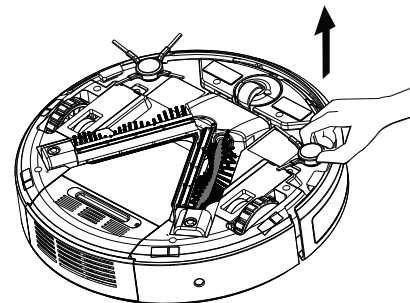
When CleanMate unit is being charged on the base, if user presses “Start” on charging base and hold it for more than 3 sec., CleanMate will leave the base and begin cleaning immediately.

When CleanMate unit is being charged on the base, user can always presses the “Start” button on remote control to let CleanMate leave the base and begin cleaning immediately (even when the battery is not fully charged).

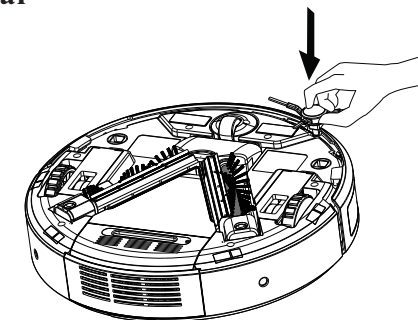
Other Display Icons on LCD :

1. When you push "Start" button (just once), the "Auto" icon will appear on the LCD.
2. After CleanMate QQ5 is fully charged, the battery "Full" icon will appear on LCD.

Side Brush Installation and Removal



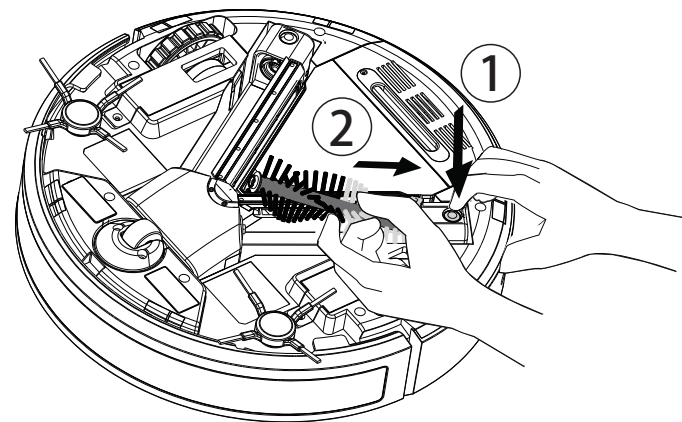
To remove the side brush, firmly hold its base and pull the brush out.



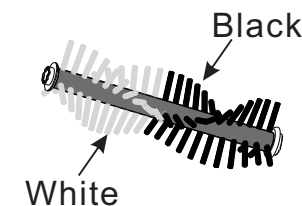
To install the side brush, push it down to mounting hole until it clicks.

Roller Brush Installation and Removal

To remove roller brush, press and hold the roller brush button (one in white, and other other in black) with one hand, pull the brush back a little forwarding the brush button. Then, lift the other end of roller brush up and remove the brush.

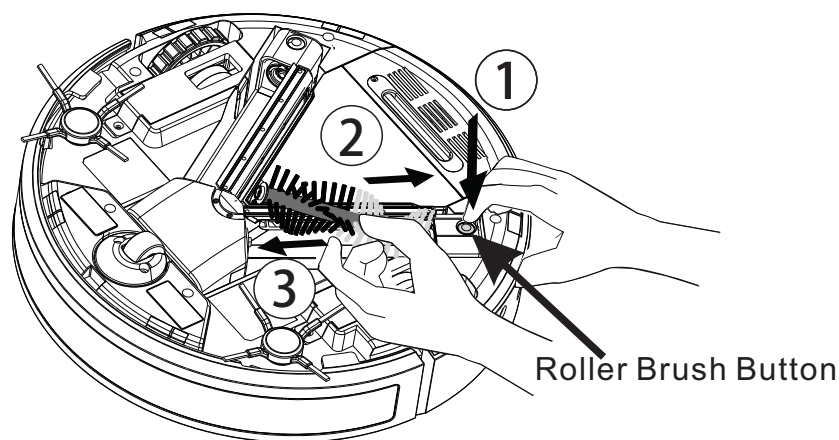


Please note that half of roller brush is in white, and the other half in black.



Roller Brush Installation and Removal

To install the roller brush, user needs to match the brush end color with the color on the brush release button. ① Press and hold the brush release button, ② insert the roller brush from the brush button side first, ③ align it at the other end. Release the brush button when the brush is locked into the proper position.



Make sure to charge the battery overnight before using it for the first time.

Room Preparation:

- Pick up all large loose items from the floor.
- Remove loose power cords or wires that could be tangled in the cleaner.
- Remove items that could be easily knocked over.
- Roll loose rug fringe under the rug.

Start Cleaning:

- ① Have the battery fully charged and clean the dust bin and filter if it has been used before.
- ② Put CleanMate QQ5 in the middle of room.
- ③ Press Power switch button on the main unit to turn it on.
- ④ Set the timer to decide how long the cleaning time is. The default timer setting is 80 min. It is changed by pressing the Timer button on remote control. NOTE: Actual running time may vary depends on battery power level and floor type..
- ⑤ Press Start button on the main unit or remote control. The CleanMate QQ5 unit will start cleaning automatically in the default auto cleaning mode.
- ⑥ When cleaning is completed or battery power gets low, the QQ5 unit will shut down the vacuum motor and return to the charging base. If the CleanMate is too far away from the base, it will move along the wall until it reaches the base detection range, and start the docking to the charging base.

If QQ5 low battery light is blinking, its battery needs to be charged before using it again.

Stop Cleaning:

If you want to stop the cleaning at any time, press the Power switch button to shut it down, or press the Stop button on remote control to stop the unit.

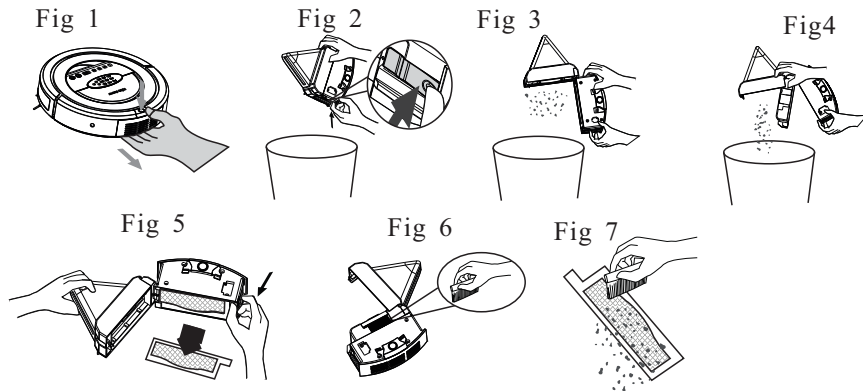
Cleaning and Maintenance

To maintain the top performance of your CleanMate QQ5 unit, please make sure to follow the steps below after each use.

1. Empty the dust bin and clean the filter.
2. Remove anything tangled around roller brushes and side brushes.
3. Remove anything tangled around wheels.
4. Remove any debris that stuck on vacuum inlet openings.

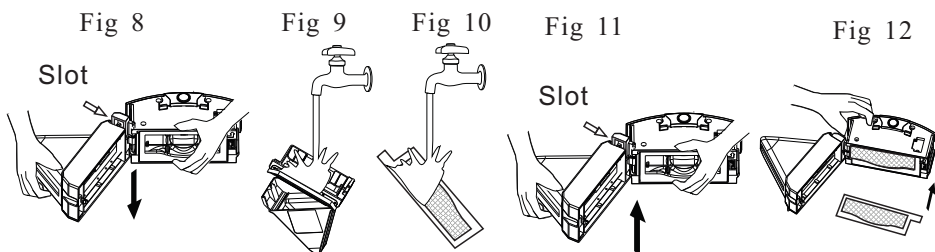
Cleaning Dust Bin and Filter

Press the button on the top of Dust Bin to remove it from the main unit (Fig. 1), then press the button on its left side to open it (Fig. 2). Dump the debris and clean Filter using the small brush embedded on the top of Dust Bin.



Washing Dust Bin and Filter

User can wash Dust Bin and Filter with tap water if necessary. Slide the Dust Bin base up along the arrow direction (on the right of Dust Bin) to remove the dust container. Make sure let them dry before next use.



Cleaning Roller Brush

Roller brush cleaning tool is embedded on the back side of QQ5 charging base (Fig. 12). Use it to remove the hairs and other debris on the roller brushes.

Fig 12

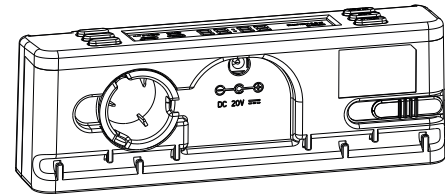
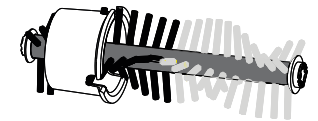


Fig 13



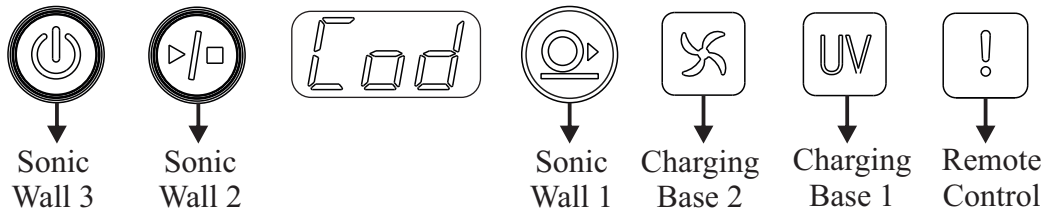
General Cleaning Tips

After the CleanMate is used for a period of time, dust might accumulate on the vacuum entry or other area on the QQ5 unit. Do not spread water directly on your CleanMate to avoid potential electrical damage to the unit. Use canned air and hand brush provided to clean it. If you use a damp cloth to remove the dust, and wipe it dry before next use.

Setting Accessories ID with Main unit QQ5 Plus

CleanMate QQ5 unit can work with up to 3 Sonic Walls, 2 Charging Bases, and 1 Remote Control. All the parts included in the QQ5 retail package are ready for use out of box, so you can skip this section. .

Any extra (or replacement) Sonic Wall, Charging Base & Remote Control must be properly configured in order to use it with the QQ5 unit. Please follow the easy Study steps below to check set up a new accessory device.



LED On -- device ID has been used
LED Off -- device ID not in use

Entering Study mode:

Press Power button on QQ5 main unit to turn it on, then press and hold Start/Stop button till you hear 2 beeping sounds. The QQ5 display will show , which means that it has entered Study mode.

Setting up an extra Charging Base:

If one of the Charging Base icons is does not light up (OFF) on the QQ5 main unit, you can add an extra Charging Base.

Step 1: Power on the extra Charging Base.

Step 2: Press and hold the Time Setting button until you hear 2 beeping sounds. Now, the corresponding Charging Base icon will become ON, which means that the new (or replacement) Charging Base has been properly configured to be used with your QQ5 unit.

NOTE: If both Charging Base indicators are ON, then you need to clear previous ID saved on QQ5 main unit in order to add an extra Charging Base.

Setting Accessories ID with Main unit QQ5 Plus

Setting up an extra Sonic Wall:

Step 1. Power on the Sonic Wall.

Step 2. Insert a toothpick into the hole on the back on Sonic Wall, pressing down and hold it untill you hear beeping sounds. One of the Sonic Wall icon that was OFF before should become ON now, which means that the new (or replacement) Sonic Wall has been properly configured to be used with your QQ5 unit.

NOTE: If all 3 Sonic Wall indicators are ON, then you need to clear previous ID saved on QQ5 main unit first in order to add an extra Sonic Wall.

Setting up a new Remote Control:

Step 1. Remove the battery from Remote Control.

Step 2. Press the Left and Right buttons at the same time. (Do not press any other buttons).

Step 3. Re-install the battery to remote control while holding down the Left and Right buttons.

Step 4. After you hear the beeping sounds and Remote Control indicator is ON. It means that it means new Remote Control has been properly configured to be used with your QQ5 unit.

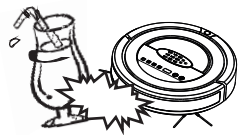
Exiting Study mode:

Press the Power button on QQ5 main unit to exit Study mode, and save the new device ID(s) to the QQ5 unit.

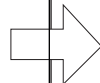
Clearing previously saved device ID:

In Study mode with  displayed on QQ5, press and hold Start/Stop button on QQ5 main unit until you hear beeping sounds. All the 6 devices indicators will be OFF, and previously saved ID's are all cleared now. Once old devices ID's are cleared, you must reset device ID (see steps above) in order to use them with the QQ5 again.

Tip 1: Prepare the cleaning area and remove large debris, loose cables, wires, and items that can be easily tangles with brush or knocked over.

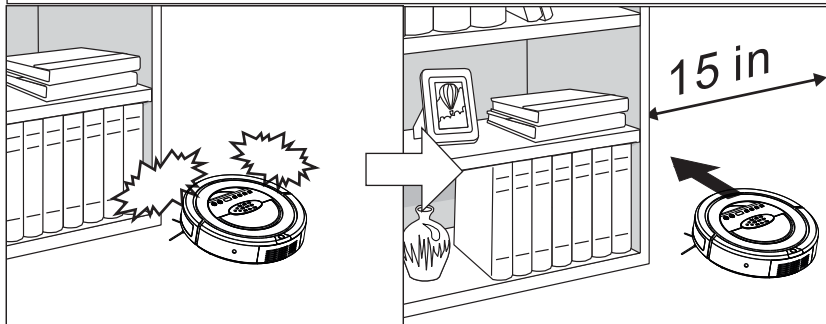


Remove vases, glasses, or small lamps, etc.

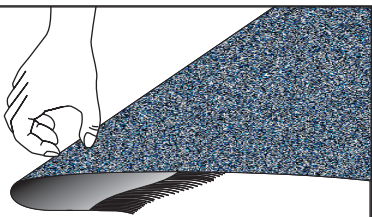


Remove small items that might obstruct CleanMate operation for faster and better cleaning.

Tip 2: Leave enough clearance space (15" or more) for CleanMate to operate.

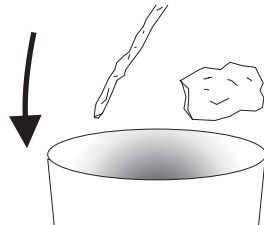


Tip 3: Do not let loose edges of rugs, drapes, table cloths, etc to get caught by QQ5 brushes. Roll the loose edges of rugs underneath.



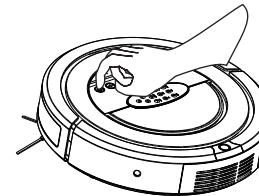
Fold the rug edges that have loose ends under it

Remove plastic bags and long string or loose wires from floor.

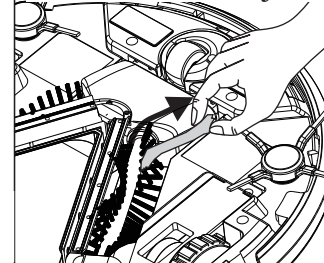


Tip 4: Fixing jams: If some object gets caught with roller brush or side brush, turn the QQ5's power off immediately. Remove anything that caused the jam before using the cleaner again.

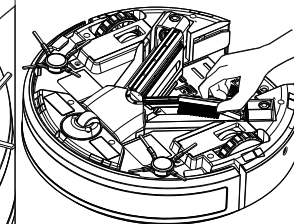
QQ5 will make a beeping sound when jammed.



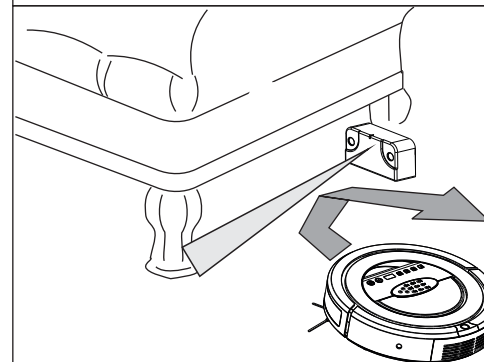
Turn it upside down, and remove the objects.



Clean the vacuum entry



Tip 5: Block off certain areas with Sonic Wall (or other objects) to get better cleaning result.



Sonic Wall will create a barrier and redirect QQ5 to a different direction.

Item	Description
AC Adapter/ Battery Charger	Output: 20Vdc 1000mA Input: 100 - 240V 50 - 60 Hz
Battery	14.4V, 2.8Ah NIMH Rechargeable Battery; Up to 3.5 hours of charging time
Noise Level	65dB at distance of 3 ft.
UV Light Lamp Life	6000 hours
Dust Bin Capacity	0.32 liter
Unit Moving Speed	7~8 in/sec (19 ~ 21 cm/sec)
Remote Control Range	RF signal with up to 32 ft (10 m) range
Moving Patterns	5 types: Spot Spiral, Special Bounce, Along Wall, S shape, and Polygonal Spiral
Suction Power Speed & Vac Motor Speed	4 ft/sec (1.2/sec); 11500 rpm
Dimension	13" (Diameter) x 3.2" (H) or 33cm (Diameter) x 8cm (H)
Weight	8.6 lbs (3.9 kg)

Regarding the length of cleaning time	Q. When QQ5 has been charged once, how long can it clean? A. It depends on the condition of the battery and floor type. With a new battery and hardwood floor, it can clean about 90 minutes.
Regarding climb up height	Q. How high of carpet can QQ5 climb? A. About 0.4" (1 cm) from the floor
Regarding how to prevent falling	Q. Will QQ5 fall from stairs? A. We cannot 100% guarantees that there will be no dropping or falling. QQ5 may malfunction if the drop sensor is dirty or exposed to direct sunlight or other special types of light waves. We recommend placing the attached sonic wall around the stairs.
Regarding floor damage	Q. Will QQ5 leave marks on the floor? A. Although the wheels are made of rubber, we cannot guarantee there will be no damage. In general, we recommend avoiding usage on rugs made of soft materials, new floors, dark floors or reflective surfaces.
Regarding the battery and its recharging time	Q. How long should the battery charging take place? A. It depends on the remaining charge left in the battery, however at most it needs to be charged up to 3.5 hours Q. How long is the life of the battery? A. The target lifespan is 400-500 charging cycles. Replacement batteries are also sold separately. Q. If the battery is not used at all, how to handle battery? A. Remove battery if unit will not be used for long period of time. Q. In between returning to the charging station, if the battery dies and it stops how should the QQ5 be recharged? A. Please use the AC adapter to do manual re- charge. Q. Is there a need to line up the charging station exactly against the wall? A. In order to ensure the charging connection does not get disrupted, the charging station must be stabilized against the wall.
Regarding the remote control	Q. I removed the clear protector sheet, but I still cannot use the remote control. A. You must turn the power switch on QQ5 after the protector sheet has been removed. Q. Why can't QQ5 power switch be turned on by remote? A. Operation must be started. Please refer to Page 6 "The QQ5 operation panel and how to start operation of QQ5."

Error Code Display

QQ5 Plus

In the following instances, the red “!” error indicator may light up and one of the error codes may appear on QQ5 display panel. Please read the below for fixes.

Error Code Meaning	Things To Do
E1: The front drop sensor detection is not working	Please check to see if the drop sensor is dirty or if trash is stuck to it
E2: QQ5 is lifted off the ground	Check to see whether the QQ5 is hovering
E3: The front bumper is not working	Check to see if trash is attached to the bumper
E4: The placement of the dust bin is off	Please check dust bin is installed correctly
E5: The left wheel problem	Please check to see if the left wheel is stuck
E6: The right wheel problem	Please check to see if the right wheel is stuck
E7: The side brush problem	Please check to see if there is trash stuck on the side brush
E8: The roller brush problem	Please checked to see if there is trash stuck on the roller brush
E9: Vacuum motor problem	Please check to see if vacuum motor is stuck
E10: Batter charging error	Please check to see if the charging station is properly connected
E11: Battery overheated	Please check battery condition and let it cool down

Troubleshooting

QQ5 Plus

Problem Symptoms	Possible Cause	Things To Do
QQ5 can not be powered on & start cleaning	1. The battery is not properly connected	1. Check battery connection or reinstall battery.
Red ! error indicator ON. Refer to error codes meaning on Page 30	1. The battery power is too low 2. The sensor detected something abnormal or a stuck object 3. Direct sunlight (or other strong light) may affect the machine 4. A microwave oven, TV, or radio is nearby.	1. Recharge the battery 2. Remove the foreign object if necessary 3. Block the sunlight and continue use the machine 4. Use it far away from the interference source.
Battery won't charge; Power light is not on during charging process (E10)	1. Bad battery connection. 2. Bad AC adapter connection or defective adapter/charger 3. The charging station may not be placed correctly 4. The battery is overheated (E11)	1. Check battery connection or re-install battery 2. Make sure AC adapter is well connected; replace defective AC adapter. 3. Check the placement of charging station and adjust it if necessary 4. Please wait until the battery has cooled
Remote control does not work	1. The insulation sheet under remote battery has not been removed. 2. The remote control battery is dead; or battery is not installed properly 3. Operation is affected by a nearby microwave oven, etc.	1. Remove the battery insulation sheet 2. Re-install a new battery (words on battery facing up) 3. Turn off the microwave oven

Troubleshooting

QQ5 Plus

Problem Symptoms	Possible Cause	Things To Do
QQ5 can not return & dock to the charging base	1. Charging station is not properly placed against the wall 2. An object is in between the charging station and QQ5 3. Battery level is too low (LO shown on display) 4. Something might stuck on QQ5.	1. Place the charging station securely against the wall. 2. Please remove the object that blocks the signal. 3. Charge the QQ5 manually. 4. Remove debris stuck to the wheels & brushes
After being fully charged, QQ5 is not self starting	1. The “automatic start” function is not properly set up. 2. Battery may be overheated	1. Please set up the “automatic start” function again 2. Wait until the battery is cooled down before using it again
After charging the battery for a few times, the actual cleaning time is still shorter than the pre-set time on timer	1. Battery has not been fully charged 2. The battery is old and needs to be replaced	1. Charge the battery manually (bypass the base) for 48 hours. If it works, something might be wrong with the charging base. 2. Replace the battery
The roller brush and side brush are not working well (E7&E8)	1. Something got tangled around brushes, or the brush might be worn-out	1. Clean the brushes; replace them if necessary them
QQ5 will only move backward	1. The drop sensors may be dirty	1. Clean the drop sensors. Contact tech support if it is still does not work.
QQ5 is moving in circles (E5&E6)	1. Something stuck on the wheel 2. One of the wheels may be defective	1. Clean the wheel 2. Replace the defective wheel.

Warranty Policy

QQ5 Plus

Please fill in your warranty card completely and submit it to your local customer service center.
Infinuvo provides you, as the owner of this Infinuvo product, with the following Limited Warranty Policy.

One year Product Warranty:

Infinuvo warrants to the original purchaser of this Infinuvo product that the product is free from defects in original materials and workmanship for a period of up to one year from the date of initial purchase. This warranty is only valid if the product has been properly installed and is used in the way for which it is intended, and has received only factory-authorized repairs, servicing or alterations.

Under-warranty products that meet these conditions and that function improperly will be repaired or replaced, at the discretion of Infinuvo.

Six months Battery Warranty:

Infinuvo warrants to the original purchaser of this Infinuvo product that the original batteries contained within this product will function for a period of six months. This warranty is only valid if the product has been properly installed and is used in the way of which it is intended, and has received only factory-authorized repairs, servicing, or alterations.

Under-warranty batteries that meet these conditions and that function improperly will be repaired or replaced, at the discretion of Infinuvo.

These warranties contain the sole express warranty of Infinuvo, which makes no other warranties, expressed or implied. These warranties are made in lieu of any implied warranties of merchantability or fitness for a particular purpose. These warranties give you specific legal rights. You may also have other rights, which vary from state to state.

WHEN YOU RETURN A CLEANMATE PRODUCT OR BATTERY UNDER THIS WARRANTY, you must first obtain an RMA number by calling your local customer service center or www.infinuvo.com. Infinuvo reserves the right to request that you submit a letter describing the circumstances under which the problem occurred and that you submit invoice and any other supporting evidence and documentation.